

## SPECIAL ISSUE

Reactivity of Chemical Species in Aquatic Environments, selected papers presented at the  
11th International Symposium 'Chemistry of the Mediterranean', Primošten, Yugoslavia,  
9-16 May 1990

## CONTENTS

<i>Editorial</i> .....	ix
Characterization of multiple functional groups on kaolinite J.R. Kramer, P. Collins and P. Brassard (Hamilton, Ont., Canada) .....	1
Redox conditions and alkalinity generation in a seasonally anoxic lake (Lake Greifen) L. Sigg, C.A. Johnson and A. Kuhn (Dübendorf, Switzerland) .....	9
The kinetic interactions of metal ions with humic acids G.R. Choppin and S.B. Clark (Tallahassee, FL, USA) .....	27
Study of cadmium interaction with humic acid at the mercury/water interface M. Plavšić and B. Čosović (Zagreb, Yugoslavia) .....	39
Complexation of copper and nickel in the dissolved phase of marine sediment slurries L.J.A. Gerringa, J. van der Meer and G. Cauwet (Den Burn, Netherlands) .....	51
The rate of reduction of copper(II) with hydrogen peroxide in seawater F.J. Millero, V.K. Sharma and B. Karn (Miami, FL, USA) .....	71
Seasonal variation of $Mn^{2+}$ adsorption on to calcareous surfaces in the English Channel, and its implication on the manganese distribution coefficient M. Wartel, M. Skiker, Y. Auger, A. Boughriet (Villeneuve d'Ascq, France), E. Puskaric (Wimereux, France) and P. Guegueniat (Cherbourg, France) .....	85
Gadolinium behavior in seawater: a molecular basis for gadolinium anomalies K.-H. Kim, R.H. Byrne and J.H. Lee (St. Petersburg, FL, USA) .....	107
Dissolved uranyl complexed species in artificial seawater R. Djogić (Zagreb, Yugoslavia) and M. Branica (Julic, FRG) .....	121
The use of chemiluminescence and ligand competition with EDTA to measure copper concentration and speciation in seawater W.G. Sunda and S.A. Huntsman (Beaufort, NC, USA) .....	137
Partitioning of trace metals released from polluted marine aerosols in coastal seawater M. Kersten, M. Kriews and U. Förstner (Hamburg, FRG) .....	165
Maximum pollutant concentrations at the wrong depth: a misleading pollution history in a sediment core K.J.M. Kramer (Den Helder, Netherlands), R. Misdorp, G. Berger (Texel, Netherlands) and R. Duijts (The Hague, Netherlands) .....	183
Bioavailability: the organism as sensor P.J. Wangersky and R.L. Maass (Halifax, N.S., Canada) .....	199
Possible loss of polychlorinated biphenyls from migrating European silver eels: a 3 month simulation experiment E.K. Duursma, J.I.J. Witte, J. van der Meer (Texel, Netherlands), J. Nieuwenhuize, J.M. van Liere and C.M. de Rooy (Yerseke, Netherlands) .....	215
Evolutionary trends in the lipid biomarker approach for investigating the biogeochemistry of organic matter in the marine environment A. Saliot, J. Laureillard, P. Scribe and M.A. Sicre (Paris, France) .....	233
Isolation and partial characterization of cadmium-induced metallothionein-like proteins in <i>Mytilus galloprovincialis</i> J. Pavičić, B. Raspor, M. Branica (Zagreb, Yugoslavia), E. Balestreri, P. Lenzi and R. Felicoli (Pisa, Italy) .....	249

Surface reactivity of the Rhône suspended matter and relation with trace element sorption J.-M. Garnier, J.-M. Martin, J.-M. Mouchel and A.J. Thomas (Montrouge, France).....	267
Mercury in the Rhône delta and adjacent marine areas D. Cossa (Nantes, France) and J.-M. Martin (Montrouge, France).....	291
Selenium distribution in the Rhône delta and the Gulf of Lions D.M. Guan and J.-M. Martin (Montrouge, France).....	303
Relationship between specific surface area and some chemical and physical properties of particulates: study in the northern Adriatic N. Vdović, J. Bišćan and M. Juračić (Zagreb, Yugoslavia) .....	317
Dissolved trace element cycles in the San Francisco Bay estuary A.R. Flegal, G.J. Smith, G.A. Gill, S. Sañudo-Wilhelmy and L.C.D. Anderson (Santa Cruz, CA, USA) .....	329
Polychlorinated biphenyls in North Sea water D.E. Schulz-Bull, G. Petrick and J.C. Duinker (Kiel, FRG) .....	365
<i>Announcement</i> .....	385